

### Abstract

A process is provided for upgrading an oligomerization product through catalytic hydrotreating resulting in a synthetic lube base oil with improved pour point and viscosity index. The upgrading process includes contacting the oligomerization product with a catalyst system, under conversion conditions, which include the presence of hydrogen and a temperature sufficient to promote selective/minor cracking, hydrogenation and isomerization. The catalyst system contains a ZSM-5 zeolite and a group VIII metal.